

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,159	06/24/2003	Robert J. Curran	POU920030019US1 9989	
46369 HESLIN ROT	7590 02/21/2007 HENBERG FARLEY &	EXAMINER		
5 COLUMBIA	CIRCLE	PATEL, HETUL B		
ALBANY, NY 12203			ART UNIT	PAPER NUMBER
			2186	
·			MAIL DATE	DELIVERY MODE
			02/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

Ė	
Ė	
Ê	
Ĺ	
ľ	
Ľ	
Ľ	
Ľ	
Ľ	
Ľ	
ľ	
P	
P	
ν	
ν	
r	

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/602,159	CURRAN ET AL.		
Examiner	Art Unit		
Hetul Patel	2186		

		7 22					
	Hetul Patel	2186					
The MAILING DATE of this communication appe	ears on the cover sheet with the c	orrespondence add	ress				
THE REPLY FILED <u>07 December 2006</u> FAILS TO PLACE THIS							
1. The reply was filed after a final rejection, but prior to or or this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a Not a Request for Continued Examination (RCE) in compliant time periods:	wing replies: (1) an amendment, aff otice of Appeal (with appeal fee) in c	idavit, or other evider compliance with 37 C	nce, which FR 41.31; or (3)				
a) The period for reply expires <u>03</u> months from the mailing da	te of the final rejection						
b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.							
	Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN						
Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee nave been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
2. The Notice of Appeal was filed on A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).							
AMENDMENTS	,						
3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will <u>not</u> be entered because (a) They raise new issues that would require further consideration and/or search (see NOTE below);							
 (b) ☐ They raise the issue of new matter (see NOTE below); (c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or 							
(d) They present additional claims without canceling a NOTE: (See 37 CFR 1.116 and 41.33(a)).		ected claims.					
4. The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324). 5. Applicant's reply has overcome the following rejection(s):							
 Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s). 							
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is pro The status of the claim(s) is (or will be) as follows:	☐ will not be entered, or b) ⊠ wivided below or appended.	ll be entered and an e	explanation of				
Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: 1-3 and 5-14.							
Claim(s) withdrawn from consideration:							
AFFIDAVIT OR OTHER EVIDENCE							
8. The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good an was not earlier presented. See 37 CFR 1.116(e).	ut before or on the date of filing a No d sufficient reasons why the affiday	otice of Appeal will <u>no</u> vit or other evidence is	ot be entered s necessary and				
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to showing a good and sufficient reasons why it is necessar	overcome all rejections under appea	al and/or appellant fa	ils to provide a				
10. The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	on of the status of the claims after e	ntry is below or attach	ned.				
 The request for reconsideration has been considered bu See Continuation Sheet. 	ut does NOT place the application in	n condition for allowar	nce because:				
I2. ☐ Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s) I3. ☐ Other:							
							

Continuation of 11. does NOT place the application in condition for allowance because:

As to the remark, Applicant asserted that

- (a) The Finality of the last Office Action mailed on 09/07/2006 is improper because a new ground of rejection based on a newly cited reference was given, to wit: the rejection under 35USC 103 on Uemura in view of Bolosky. The applicants have not previously had the opportunity to address the Bolosky reference at all. Moreover, there is no statement in the Office Action that the applicants' amendments to the claims necessitated the new ground of rejection. Indeed, the Office Action states in paragraph 3 on page 2 that "[t]he rejection of claims 1-3, 5-6 and 11-13 in the previous Office Action mailed is respectfully maintained and reiterated below for Applicant's convenience." However, the new ground of rejection under 35 USC 103 on Uemura and Bolosky was provided in paragraph 8 on pages 7-8, so the Finality of the Office Action is believed to be improper. Withdrawal of the Finality of the Office Action is thus respectfully requested.
- (b) Regarding the rejection under 35 USC 112, the Applicants have complied with the suggestion to amend the claims, as indicated by Examiner, but respectfully submit that the original claim language already covers how the metadata is handled per the applicants' invention; and, moreover, changing the claim terminology, as suggested, would create an antecedent basis problem. Therefore, claims 1-3 and 5-13 are not amended as suggested by Examiner.
- (c) Regarding the objection to claim 7 based on an informality, the applicants do not understand the objection, which was newly presented in this Final Office Action.
- (d) With reference to the Examiner's response to arguments (a)-(b) and (d) on page 7 of the Final Office action, Applicant submits that Examiner agreed with the applicants and has clearly stated that the applicants' invention is distinct from Kanfi, at least with respect to the use of data signatures, i.e., "Kanfi must read the table of data signatures associated with the entire file." Since the Examiner has agreed that every aspect of the claimed invention is not met by Kanfi, the applicants believe that the rejection of claims 1-3, 5-6 and 11-13 under 35 USC 102 on Kanfi is improper and should be withdrawn, based on MPEP 706.02(a).
- (e) The current invention avoid using heuristic data signatures, as Kanfi does, which must be stored or regenerated with each backup, and which still require the reading of the entire file, as explicitly pointed out in the specification paragraphs [0004], [0006]-[0008] and [0069]. The current invention avoids these drawbacks as recited in amended claims "to obtain changes to said file by an incremental reading of only blocks of said file that contain new data", therefore, the applicants' invention is not taught or even suggested by Kanfi.
- (f) Neither Kanfi nor Sarkar, alone or in combination, render obvious the Applicants' invention, including the limitation about obtaining changes to said file by an incremental reading of only blocks of said file that contain new data.
- (g) The applicants' "returning an indication of a hole" is completely different from Bolosky's returning zeroes to reads of unallocated regions of sparse files. That is, the applicants do not insert a predefined value (e.g., zero) like Bolosky does, but instead the applicants return "an indication of a hole for each portion of the file not containing data specified by said user, such that said write request inserts holes into said backup file, thereby bringing said backupfile up to date." The applicants respectfully, but most vigorously, contend that returning a predefined zero from a read of unallocated space, as Bolosky does, is not equivalent to returning an indication of a hole, so that holes are inserted into the backup file.

Examiner respectfully traverses Applicant's remark for the following reasons:

With respect to (a), Examiner would like to point out to Applicant that the Finality of the last office action mailed out on 09/07/2006 is PROPER because: (i) as clearly indicated in the paragraph 3 of the final office action that the rejection of ONLY claims 1-3, 5-6 and 11-13 were maintained. Applicant's amendment necessitated the new ground(s) of rejection under 35 USC 103 on Uemura and Bolosky were introduced for the claims 7-10; and (ii) all independent claims (i.e. claims 1, 6-7 and 11-13) were amended which had changed the scope of the claims and/or require further search/consideration. An opportunity to address the newly cited Bolosky reference would have been given to Applicant if there was no such amendment filed by Applicant (on 07/27/2006) which had changed the scope of the claims and/or require further search/consideration.

With respect to (c), the big long phrase "writing to a backup file ... that contain new data" as currently recited in claim 7 is not clear and confusing.

With respect to (d), it appears that Applicant misunderstood the remark presented in the previous office action. Examiner never mentioned and/or agreed that Kanfi does not meet every aspect of the claimed invention. Examiner tried to point out that in Col. 3, lines 38-50 of Kanfi, the data signatures (NOT the data portion itself) associated with entire file are read and then storing only those blocks whose signature does not match with signature of blocks that have been already archived. This is similar to the claimed invention because according to the current application, the metadata (i.e. the dirty bit) (similar to data signatures of Kanfi) have to be read for each block to determine which block(s) contain(s) new data. Therefore, the 35 USC 102 rejection based on Kanfi is proper.

With respect to (b), (e) and (f), as mentioned above in the response to the argument (d), according to the current application, the metadata (i.e. the dirty bit) (similar to data signatures of Kanfi) have to be read for each block to determine which block(s) contain(s) new data. If applicant believes that the reading of such a metadata (i.e. the dirty bit) is not required according to the present invention, then appropriate claim amendment(s) as suggested in the 35 USC 112 should be made to clarify the point.

With respect to (g), Examiner would like to clarify that since the currently pending claim 7 does not specifically recite that an indication of a hole is other than zero, the Bolosky prior art does read on it. In other words, there is no such limitation which would avoid comparing "an indication of a hole" with "zero" of the Bolosky prior art.

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100